WHAT WE CLAIM IS:

1. A parking assist apparatus comprising:

a target parking position setting means for setting a target parking position in which a vehicle is desired to be parked by an operation on a display for a position setting appearing on an actual image that shows vehicle surroundings;

a traveling locus calculating means for calculating a traveling locus to the target parking position set by the target parking position setting means for performing a parking assist to guide the vehicle along the traveling locus; and

a memory means for keeping storing an information of the traveling locus being generated at a time immediately before a resetting of the target parking position is performed until a new traveling locus to a new target parking position is generated by the calculation of the traveling locus calculating means under a condition that the parking assist is once started based on the traveling locus initially generated by the calculation of the traveling locus calculating means and when the resetting of the target parking position is performed by the target parking position setting means before the vehicle reaches the target parking position being initially set.

2. A parking assist apparatus according to claim 1, wherein the memory means stores the information of the traveling locus being generated at a time immediately before the resetting is performed and an information of the target parking position being set at a time immediately before the resetting is performed.

3. A parking assist apparatus according to claim 1, wherein when the traveling locus to the newly set target parking position is not generated by the

calculation of the traveling locus calculating means after the target parking position is newly set by the target parking position setting means, the parking assist is continued based on the traveling locus being generated at a time immediately before the resetting is performed, the traveling locus being stored in the memory means.

4. A parking assist apparatus according to claim 2, wherein when the traveling locus to the newly set target parking position is not generated by the calculation of the traveling locus calculating means after the target parking position is newly set by the target parking position setting means, the parking assist is continued based on the traveling locus being generated at a time immediately before the resetting is performed, the traveling locus being stored in the memory means.

5. A parking assist apparatus according to claim 1, wherein the memory means keeps storing the information of the traveling locus being generated at a time immediately before the resetting is performed when a difference between the target parking position newly set by the target parking position setting means and the target parking position being set at a time immediately before the resetting is performed is equal to or smaller than a predetermined value.

6. A parking assist apparatus according to claim 2, wherein the memory means keeps storing the information of the traveling locus being generated at a time immediately before the resetting is performed when a difference between the target parking position newly set by the target parking position setting means and the target parking position being set at a time

immediately before the resetting is performed is equal to or smaller than a predetermined value.

7. A parking assist apparatus according to claim 5, wherein when the difference between the newly set target parking position and the target parking position being set at a time immediately before the resetting is performed is equal to or smaller than the predetermined value after the resetting of the target parking position is performed by the target parking position setting means, the traveling locus to the newly set target parking position stops being calculated by the traveling locus calculating means and the parking assist is continued based on the traveling locus being generated at a time immediately before the resetting is performed, the traveling locus being stored in the memory means.

8. A parking assist apparatus according to claim 6, wherein when the difference between the newly set target parking position and the target parking position being set at a time immediately before the resetting is performed is equal to or smaller than the predetermined value after the resetting of the target parking position is performed by the target parking position setting means, the traveling locus to the newly set target parking position stops being calculated by the traveling locus calculating means and the parking assist is continued based on the traveling locus being generated at a time immediately before the resetting is performed, the traveling locus being stored in the memory means.